

PB324D1.ST25.txt
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<110> Patrick J. Dillon et al.

<120> Nucleotide Sequences of Escherichia coli Pathogenicity Islands

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<150> 08/976,259

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<150> 60/061,953

<151> 1997-10-14

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<210> 8

<211> 451

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (437)..(437)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (449)..(449)

<223> n equals a, t, g, or c

<400> 8

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gtctttgagt gcccgaacct gaatatcgag agattgctgg ctggttgata cccgtgcgta	360
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451

<210> 9

<211> 720

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (621)..(621)

<223> n equals a, t, g, or c

<400> 9

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<210> 10

<211> 2920

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (3)..(3)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (1250)..(1250)

<223> n equals a, t, g, or c

<400> 10

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atattgttgt tgattttggg aatattaatc ctgagcatgt ggacaactca cgtggtgaag      240
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<210> 11

<211> 1678

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (1666)..(1666)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (1677)..(1677)

<223> n equals a, t, g, or c

<400> 11

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gagcttatta tgaatatgaa caatccatta gaggktcttg ggcatgtatc ctggctckgg    360
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gggttagata ctgtatcggg kattttatct gcgrtttcag caagcttcat tctgagscat	1620
gcagatgcag ataccggrac taaagctgcc agcagggtgtt ggattnacca acggaant	1678

<210> 12

<211> 2676

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (128)..(128)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (447)..(447)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (1100)..(1100)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (2660)..(2660)

<223> n equals a, t, g, or c

<400> 12

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aataaganaa aacataagag tgaactaaaa aacatttctt atgaattcca atcaactaat	180

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gagaatactt caaacgaatg agtgtaatga aataagaaaa ctaaccgacc agattgcaat	300
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<210> 13

<211> 1485

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (16)..(16)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (144)..(144)

<223> n equals a, t, g, or c

<400> 13

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<210> 14

<211> 22671

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (19750)..(19750)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (20174)..(20174)

<223> n equals a, t, g, or c

<400> 14

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<213> Escherichia coli

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<220>

<221> misc_feature

<222> (430)..(430)

<223> n equals a, t, g, or c

<400> 21

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<211> 2916

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (2453)..(2453)

<223> n equals a, t, g, or c

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<221> misc_feature

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<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (2908)..(2908)

<223> n equals a, t, g, or c

<400> 22

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<210> 23

<211> 2677

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (2522)..(2522)

<223> n equals a, t, g, or c

<400> 23

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<211> 537

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

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<223> n equals a, t, g, or c

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<210> 25

<211> 1128

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (1074)..(1074)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (1079)..(1079)

<223> n equals a, t, g, or c

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<222> (1115)..(1115)

<223> n equals a, t, g, or c

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<210> 26

<211> 2311

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (3)..(3)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (2008)..(2008)

<223> n equals a, t, g, or c

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PB324D1.ST25.txt

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aatgccgaga ttctattgtc attatttnaa cgtatgctaa tactcttttg agtcgccgga	2040
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gtaaaaaaaaa acagcacaaa ccttagcatg gtatctccag aagaaagcag ggcagtattt	2160
cctgccccaa aatacaaaac cgtttggtat tcgtaggcga tggataaatt gactgttggt	2220
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<211> 1118

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (142)..(142)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (228)..(228)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (261)..(261)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (693)..(693)

<223> n equals a, t, g, or c

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tctgaactaa aatagcattg tnataagtgt ttgttgccgt tatcgtaacc ttcattgttc 180
ccagattata gggacaccgc atattcacag taaactcttt ttcgtgantt ccattttgac 240
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<210> 28

<211> 562

<212> DNA

<213> Escherichia coli

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gcccgtgacg cgtgcttgtg gatgctcctg gccttgggtcc ggtcaaaaaa gagaatttgt	540
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<210> 29

<211> 745

<212> DNA

<213> Escherichia coli

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actatggcat gctcatttat actattcata agaaagtgtg attatctgta agcattaacc	180
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gaatcatgaa caccatttaa aattaccatc attaacatca tataaaaata tatttttact	360
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tttttgcaaa gtataaaaaa ttgaattcgc cactttttta cttattgctc ttttatactg	660
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<210> 30

<211> 400

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (6)..(6)

<223> n equals a, t, g, or c

<400> 30

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gccgttgaac accgagcatt caaactgctg gatatccgga ttttcagcgc gaacggcgtc	180
gatcagatcg ttcagatcct ggaaaatcaa cccgtcagca ccgatgatct ggcgaatttc	240
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cgttcgggaa agcgaatttc cggtgccgca gaagcgagggt acacttttctt cgctccggct	360
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<210> 31

<211> 824

<212> DNA

<213> Escherichia coli

<400> 31	
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tatagcgctc atactagggg tttgagggcc aatggaacga aaacgtacgt taaggagata	180
attcgttggt tatatttaaa tttagagctc tcagttcccc ttttaaaata tcctctggca	240
acgtgaatgt ataatggccc aacatattga tatgcccgtg catcagggga gatagccgag	300
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ttgcctgtgc cagtcctgat gggcgcgagc ttttcagtaa agagcgaatg agttctgacg	660
catgaattgt acccaacttc aggaaccagc ggttcgcatac atctcatccc actgactctc	720
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<210> 32

<211> 911

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (841)..(841)

<223> n equals a, t, g, or c

<400> 32

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gcttagtagg gatacgtatc tttatgggat agccatattc ttttggcaat accctgttat	660
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agtaaccatc gacgcaacga aaactgacgt attttgcccg catatcggca ccaatcagcg	780
tcaggaaatg ccggaatggt atccctccc attttcctat tgcaactccat ccttcaacac	840
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ttacgggtta t	911

<210> 33

<211> 463

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (27)..(27)

<223> n equals a, t, g, or c

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 aagtaattct gcaatatcgt taaaaacacc atttacggta tgagtatac caccaacgca 300
 atgtagatga gttgactccg ggggtatcatt gtctgcttct gcaaagagta tagctgtctt 360
 gctaattgta acaggcgcct gtgarcgga taattcgaga gaaataaacc cggattctgc 420
 cataaaaact ccagtttgtg atgttatatc atttcatatg ttt 463

<210> 34

<211> 565

<212> DNA

<213> Escherichia coli

<400> 34
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 gcaaacataa taggctgggc attgcgcttc agctcaccac agcccgtttt ctgggaacat 180
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 ggccgcactg ccgaacaaat ggcag 565

<210> 35

<211> 512

<212> DNA

<213> Escherichia coli

<400> 35
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PB324D1.ST25.txt

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aaaaaacttg aagccggaaa ttatttttgc gtgctgggat tccgggtcga ttatgagtga 240
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tgggatgtgg aattgttaac ggggccaaag ta 512

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<210> 36

<211> 827

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (16)..(16)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (361)..(361)

<223> n equals a, t, g, or c

<400> 36

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gcaggaggtg tatccaaacc aatggactta gatattgaat tggttaattg tgatattact 240
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aagatggtga aaacgtgctg cattatactg ctgttggtta gaagtcgtca gccgttggtg 480
ccgctgttac tgaagggtgc ttctcagcag ttgcgaattt caacctgact tatcagtaat 540

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 acgtatggtg ggacggcagg gctgcttttc atggtgaggt tgtcagacct gcctgtactc 780
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<210> 37

<211> 400

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (238)..(238)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (364)..(364)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (384)..(384)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (398)..(398)

<223> n equals a, t, g, or c

<400> 37

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 tatcgactac aaaggcctgc ctgctgacgt cgtgcctggt gacatcctgc tgctggacga 180

PB324D1.ST25.txt

tggtcgcgtc cagttaaaag tactggaagt tcagggcatg aaagtgttca ccgaagtnac	240
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tgaagcgctg accgaaaaag acaaagcaga cattaagact gcggcggtga ttggcgtaga	360
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<210> 38

<211> 578

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (106)..(106)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (501)..(501)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (549)..(549)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (556)..(556)

<223> n equals a, t, g, or c

<400> 38

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gcaggggaac catctgcaaa acggtactgc cagcatcaag aatgatcgaa tcgccatcat	180

ggataaaact aacggcagct tctgcaatca gctcttttctt gtgggtgttg atgagtgttt	240
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caaatatgtc gccattcttc aaccgagcat ttaccctgct ttgcagatac tccagaatgg	420
cggcctgacg ctgacgagtt tcatgggcgt gatacctgat ttaggttcaa atgataactc	480
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tgatagggnc aggggnagtc acacggcgta atcaccgc	578

<210> 39

<211> 399

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (380)..(380)

<223> n equals a, t, g, or c

<400> 39

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tcaccaataa taatgtttca tatgttaatc attgggcaat tcctgatgaa gccccggttg	180
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aagatttcat cgacacgtcn gcgtgcaatc tatccgtat	399

<210> 40

<211> 327

<212> DNA

<213> Escherichia coli

<400> 40

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aaaatgctgg atttttattt tgtgacgaat gctgcaaaat tgcattctgca ctctgatgta	180

PB324D1.ST25.txt

gcttttatct gtttcagtga agcatgccca caaactgagt tattaagttg tggaagaaca	240
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<210> 41
 <211> 314
 <212> DNA
 <213> Escherichia coli

<220>
 <221> misc_feature
 <222> (72)..(72)
 <223> n equals a, t, g, or c

<400> 41	
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gactatctgg aagatggtga gtgcattgac agaattagcg aatcaatttt ttttacaccg	240
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<210> 42
 <211> 590
 <212> DNA
 <213> Escherichia coli

<220>
 <221> misc_feature
 <222> (44)..(44)
 <223> n equals a, t, g, or c

<220>
 <221> misc_feature
 <222> (58)..(58)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (142)..(142)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (145)..(145)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (491)..(492)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (584)..(584)

<223> n equals a, t, g, or c

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<400> 42
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gccaccgcgc cagcacctac gngcncgcgc agctgggtgta attgcgccag acccagacgc      180
tccgggtttt cgataatcat cagactggcg ttaggcacat caacgccgac ttcaataacg      240
gttgtggcaa ccagcaggtg tagctcacct tgtttaaacg acgccatcac cgcctgtttc      300
tcggcagggtt tcatccgccc gtgtaccagg ccaacgttca actctggtag cgccagtttc      360
aactcttccc aggtagtccc gmcgcctgcg cttccagcaa ttccgactct tcaatcaacg      420
tacaaacca gtatgcctga cgaccttcag ttatgcaggc gtggtgcacc gggtgcaatg      480
gatgtcggtg nngcgggtat caggaatagc gaccgtagtc actgggcgtg cggcctgggc      540
ggcactccat ctatcaccga gggatatcag atcgggcata cgcntgcatt      590

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<210> 43

<211> 400

<212> DNA

<213> Escherichia coli

<400> 43

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gacgaaaggg cctcgtgata cgcctatatt tatagggttaa tgtcatgata ataatgggtt    60
cttagacgtc aggtggcact tttcggggaa atgtgcgcgg aaccctatt tgtttatatt    120
tctaaataca ttcaaatacg tatccgctca tgagacaata accctggata aatgcttcaa    180
taatattgaa aaaggaagag tatgagtatt caacatttcc gtgtcgccct tattcccttt    240
tttgcgccat tttgccttgc ctgtttttgc tcaccagaa acgctgggtga aagtaaaaga    300
tgctgaagat cagttgggtg cacgagtggg ttacatcgaa ctgggatctg caacagcggt    360
aagatccttg agagtttttc gccccgaagg aacgtttttc    400

```

<210> 44

<211> 400

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (20)..(20)

<223> n equals a, t, g, or c

<400> 44

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ctacgaaatg cactagttat aacctgtatt gaaggaaaga tcttctgata ctctttccag    120
agatcttcaa gtctggccat ggaaattgac ttggctgcat attctagggtc agtgtttatg    180
atagtttctc tattctctct gaatgcggaa aaaaaagctt cattcaacaa tgatagtaaa    240
tccttgggcc ggtaaagggt aaattgcaaa catcgcttaa aaccattcct ccctttaaga    300
tcatccgctg tgcattctat ccaaactcgt tgatctttct caatatctag cttaaagtgt    360
actttcattc ttttagctga cagcattagg agttgtgccc    400

```

<210> 45

<211> 585

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (25)..(25)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (178)..(178)

<223> n equals a, t, g, or c

<400> 45		
taatgttgaa gacagagata taatntacag catcatccca caaggcagat ataacaatac		60
ttgactggga tatgcaaagc gatagtgggc aatttgctat tgaaataata aaatcgataa		120
tcgtttcaga tataaattct ggaggacggt tacgtcttct ttctatttat actggtgnac		180
atgttactgc tgttataact aagttgaaca atgagttaaa gaaaacatac cgtagcgtaa		240
taaaaaatga tgatagtatt tttattgaag ataactatgc actcgaacaa tgggtgtatag		300
ttgttattag taaagacggt tatgaaaaag atcttccaaa tgtgttaata aaaaaattca		360
ctaaccttac agctggggtg ctatccaacg ccgcactctc ttgcatttct gaaataagag		420
awaaaaccca tgggatatta acaaaatata ataataaatt agacactgca tatgtttccc		480
acatcttaaa ttttaataaaa tccaaggrgt caagggcata tgcttatgaa aatgctcatg		540
attatgcagt agatttaatt tctgaagaaa taagatcaat attgc		585

<210> 46

<211> 390

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (2)..(2)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (195)..(195)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (198)..(198)

<223> n equals a, t, g, or c

<400> 46

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aaccacgctg gaagttgacg atccggcgat ggtagcaaag cagatggaac tgggtgctgga 120

aggctgttta agccgaatgc tgggtgaatcg tagccaggcg gatgtcgaca ccgcacatcg 180

gctggcggaa gatantcntt gcgttcgccc gctgccgtca gggtggtgca ctgacctgac 240

agaaacacag aaaagaagcg atttgccgca atcttaagca gttgaatcgc ttttactgaa 300

attaggttga cgagatgtgc agattacggt ttaatgcgcc ccggtgcccg gatagctcag 360

tcgtagagca ggggattgaa aatccgttgt 390

<210> 47

<211> 473

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (437)..(437)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (465)..(465)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (468)..(468)

<223> n equals a, t, g, or c

<400> 47
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 ctgcgcaata acagtcggga aaaattagtc ggtgtaagaa agacgccgcg tattcctgcc 120
 gttccgctca cggaacttaa ccgcgagcag aagtggcaga tgatgttgtc aaagagtatg 180
 cgtcgttaat tttatctcgt tgataccggg cgtcctgctt gccagatgcg atgttgtagc 240
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 tcccctggca aacggggggcg attttcctcc atttgcctca gtggctggcg tttcatgtaa 360
 cgatacatga cagcgcccga caagatcctg atactctttg ggtattcaac cgtttccagt 420
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<210> 48

<211> 482

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (48)..(48)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (87)..(87)

<223> n equals a, t, g, or c

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 gcctataaag tcgcgccgtt cctcggnaaa aaagaggaga gcgttgaaga cctcaaattg 120
 ccgggctggc tgaacatttt ccacgacaac atcgtctcca cgcgattgtg atgaccatct 180
 tctttggtgc cattctgctc tcttcggtat cgacaccgtg cagcgatggc aggcaaagtg 240
 cactggacgg tgtacatcct gcaaactggg tctcctttgc ggtggcgatc ttcacatca 300

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cgcaggggtgt gcgcatgttt gtggcggaac tctctgaagc atttaacggc atttcccagc	360
gcctgatccc aggtgcggtt ctggcgattg actgtgcagc tatctatagt tcgcgccgaa	420
cgccgtgggtc tggggccttta tgtggggcac catcggtcag ctgattgcgg ttggcatcct	480
ag	482

<210> 49

<211> 185

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (168)..(168)

<223> n equals a, t, g, or c

<400> 49	
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aaaccctggc gttacccaac ttaatcgsct tgcagcacat ccccttttcg ccagctggcg	120
taatagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcanct gaatggcgaa	180
tggcg	185

<210> 50

<211> 491

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (472)..(472)

<223> n equals a, t, g, or c

<400> 50	
taacgcttca atacgcgcga ccagctggcg gcgctcatat ggcgtaattt tggcgtcggc	60
gagcaaaatc ccttggttaa aggtattttg ccagctgccg tcgtcatatt ggcgagcttg	120
ctgacgcgac tgcgcaggca ttaaagatc agcacaatcc atcgcccgca gccagtaaag	180

cggattggtt tcggttgatt taccttgag cgcccagatg tcgctacatt cagtagaaag 240
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 tcgggggcaat aatcggtgaa aaatgtgtcg catattcacc agacttaaag cctatcccag 420
 tgggcgtaat tggtgcagac agtctggaca tggacagcgc ggagaaaccg gnagcgta 480
 tatcgtagct g 491

<210> 51

<211> 106

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (105)..(105)

<223> n equals a, t, g, or c

<400> 51

acttgaacgg caattattat ttatccatgc aacttcaagt tgcagtatcg gaacattaac 60
 ttttctgggg tgaatatcac tctgatatcg ttttttgtat gcgtnt 106

<210> 52

<211> 481

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (439)..(439)

<223> n equals a, t, g, or c

<400> 52

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 caatatacca gactgaccc gccatcggct cagttgggtg aaacagaatt accttcgtgc 120
 agaaacgctg gtcagcgcca atgcccgcct ggttgatttt cagtccacac tggagcttgc 180
 tggtcgttgg ggaggtggag aagtggcatc agctgacggc atgcgctttg tcacaccagt 240

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t	481

<210> 53

<211> 558

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (4)..(4)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (36)..(36)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (69)..(69)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (456)..(456)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (462)..(462)

<223> n equals a, t, g, or c

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<400> 53
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tcagttcgcc gttcagggtta accagcgcac caccggagtt accacgggtg atcgctgcat    180
cggctctggat gaagttttcg tagttttcgg cattcaggcc gtacgccccca gcgagagagac    240
aatcccggaa gttaccgtct cgcccagacc aaacgggtta ccaatcgcta cgggtgtaatc    300
accacgcgc agtgcattcag aatccgccat cttaattgag gtcagggttt tcgggttctg    360
gatttgatc agcgcgatat cagagcgcgg atctttgcca accatcttcg cgtcgaactt    420
acggccatcg ctcatgtgaa cttaatgac cgctcngtta tnaacaacgt ggttggtggt    480
gacgacatag cctttatcgg catcaatgat gacgccggaa cccagcgcca tgaattctgt    540
tgctggccgc caccatta                                         558

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<210> 54

<211> 263

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (37)..(37)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (180)..(180)

<223> n equals a, t, g, or c

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<400> 54
cacctgcgtg acgtgaccga ctttttctcc tcgctgnttg tttcccctat cgtcggcctg    60
gtcattgcgg gaggcctgat attcctgctg cgacgctact ggcgcgggac gaaaaaagcg    120
tgaccgtatt cgccgcattc cggaagatcg caaaaagaaa aaacggcaaa cgtcaaccgn    180
cattctggac gcgtattgag ctgattgttt ccgctgcggg cgtggcggtt tcgcacggcg    240
cgaacgacgg accaaaaggg atc                                         263

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<210> 55
 <211> 683
 <212> DNA
 <213> Escherichia coli

<220>
 <221> misc_feature
 <222> (517)..(517)
 <223> n equals a, t, g, or c

<220>
 <221> misc_feature
 <222> (600)..(600)
 <223> n equals a, t, g, or c

<400> 55	
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ggttgccatt ccgccaatat ctcaccggac aaccgtacgc tgtgggttcc ggcattaaag	120
caggatcgca tttgcctggt tacggtcagc gatgatggtc atctcgtggc gcaggaccct	180
gcggaagtga ccaccgttga aggggcccgc ccgcgtcata tggattcca tccaaacgaa	240
caatatgcgt attgcgtcaa tgagttaaag agctcagtg atgtctggga actgaaagat	300
ccgcacggta ataatcgaat gtgtccagac gctggatatg atgccggaaa attctccgac	360
acccgttggg cgckgatat tcatatcacc ccggatggtc gccatttata cgcctgcgac	420
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gaaggcttcc agccaacgga aaccagccg cgcggcntca atgttgatca cagcggcaag	540
tatctgattg ccgccgggca aaaatctcac cacatctcgg tatacgaaat tgttggcgan	600
caggggctac tgcataaaaa aggccgctat gcggtcgggc agggaccaat gtgggtggtg	660
gttaacgcac actaaccgct gat	683

<210> 56
 <211> 282
 <212> DNA
 <213> Escherichia coli

<220>

<221> misc_feature

<222> (231)..(231)

<223> n equals a, t, g, or c

<400> 56

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gaatgtctgc gggtaatrac atcaacattg ccgtaaacct gataagcggg aaaaagtca	120
gtccggtttc tggcacactg atgacaacag ttcattcatcc accacctcac agggcagcag	180
catcagcgcc ggcgataacc tgggcgatgg ctgcaggcag agatkctggg ntgtcacagc	240
atcctctgtt tctgccgggc acagcgccct gctttctgca gt	282

<210> 57

<211> 697

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (36)..(36)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (696)..(696)

<223> n equals a, t, g, or c

<400> 57

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aagttaactc cagcaggcgg ttaattgaaa gcgaacggga ggctgatgca tggtaataat	120
cccttaaaac gcgacggcaa cgcgccagta aaccgtgaga tggtcagggg caagccagtc	180
cgggtaaacc agaggcagtc cggcagtga cgaaccggaa acatgaccac tggtggtgct	240
gagcccggca gcagcaccac acagcgtgcc ggacgagtac gggcatctc tgtcagagtg	300
cagccagccg ccgtccagtg cagtcactgc acggactgtc cccacatatg gcagggagaa	360
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cccgtggtcg	ctttctg	cgaaccagg	catccccgt	gtgaataccg	gattcagtg	660
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<210> 58

<211> 4835

<212> DNA

<213> Escherichia coli

<400> 58

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aagtttg	ttgtcgacgt	tggctatatc	agccatttcc	aatgcatagt	tctttggttt	180
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<210> 59

<211> 1746

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (9)..(9)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (35)..(35)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (877)..(877)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (1746)..(1746)

<223> n equals a, t, g, or c

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<210> 60

<211> 723

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (473)..(473)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (636)..(636)

<223> n equals a, t, g, or c

<400> 60

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<210> 61

<211> 2556

<212> DNA

<213> Escherichia coli

<400> 61

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<210> 62

<211> 790

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (19)..(19)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (29)..(29)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (57)..(57)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (765)..(765)

<223> n equals a, t, g, or c

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<210> 63

<211> 10906
<212> DNA
<213> Escherichia coli

<220>
<221> misc_feature
<222> (856)..(856)
<223> n equals a, t, g, or c

<220>
<221> misc_feature
<222> (4922)..(4922)
<223> n equals a, t, g, or c

<220>
<221> misc_feature
<222> (6875)..(6875)
<223> n equals a, t, g, or c

<220>
<221> misc_feature
<222> (8094)..(8094)
<223> n equals a, t, g, or c

<220>
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<222> (10800)..(10800)
<223> n equals a, t, g, or c

<220>
<221> misc_feature
<222> (10849)..(10849)
<223> n equals a, t, g, or c

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<400> 63
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<211> 824

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (687)..(687)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (807)..(807)

<223> n equals a, t, g, or c

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<210> 77

<211> 550

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (2)..(2)

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<211> 382

<212> DNA

<213> Escherichia coli

<400> 78

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<212> DNA

<213> Escherichia coli

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<222> (1528)..(1528)

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<222> (2618)..(2618)

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<211> 3541

<212> DNA

<213> Escherichia coli

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<222> (1758)..(1758)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (2529)..(2529)

<223> n equals a, t, g, or c

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<221> misc_feature

<222> (3392)..(3392)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (3425)..(3425)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (3452)..(3452)

<223> n equals a, t, g, or c

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<221> misc_feature

<222> (3471)..(3471)

<223> n equals a, t, g, or c

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<210> 81

<211> 1234

<212> DNA

<213> Escherichia coli

<220>

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<222> (1156)..(1156)

<223> n equals a, t, g, or c

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<211> 551

<212> DNA

<213> Escherichia coli

<400> 86

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<210> 87

<211> 595

<212> DNA

<213> Escherichia coli

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<220>

<221> misc_feature

<222> (590)..(590)

<223> n equals a, t, g, or c

<400> 87

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<210> 88

<211> 399

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (76)..(76)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (115)..(115)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (379)..(379)

<223> n equals a, t, g, or c

<400> 88

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<210> 89
 <211> 1013
 <212> DNA
 <213> Escherichia coli

<220>
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 <222> (943)..(943)
 <223> n equals a, t, g, or c

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 <222> (974)..(974)
 <223> n equals a, t, g, or c

<220>
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 <222> (1013)..(1013)
 <223> n equals a, t, g, or c

<400> 89	
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<210> 90

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<212> DNA

<213> Escherichia coli

<220>

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<222> (650)..(650)

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<220>

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<222> (658)..(658)

<223> n equals a, t, g, or c

<400> 90

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<210> 91

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<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (46)..(46)

<223> n equals a, t, g, or c

<400> 91

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cagcccccggt tgcagctcct gcaaaacaga gagcgacaac ggatgcacat ggaggatctc	180
cagcgacgct tcgcaccatg ccaccaggct aaaccgacgg ctgaaactat agggcagacg	240
cacggtgtta gcggtggttt cctgtgctac aggcaccatt aacgcgttct cccggcatta	300
aggaacgcac gaacttctgg cggttaaggcc tgattttgcg caggcaatat cgctgcgag	360
tgtgcggcat caggcttaag ccctgctcat cgcggtagat ttgctcggcg cgcatgtagt	420
tatatttgcg ctgcgacaca ccgtctgccg ccataccgtc acgcagaatg gtcgggcgga	480
taaacaccat caggttacgt ttttcttttt tatccgccgt cgatttaaac aggttaccaa	540
tcaacgggat atcgcccagc agcggcactt ctcgccacgc tttctcccgc ctggtcgtcc	600
atcagaccgc caagcacaat tagctcacca tcgttagcca acacggtggt tttcagtttg	660
cgctcaccaa acaccacgtc gaggctggtc tgtccttcca ctttcgacac ttcctgctca	720
atcaccatct gtaccgcgtt tccttcgtta atctgcggcg tgactttcag catgatgccg	780
acttttttcc tctctaccgt gttgaaagga ttgctgttat tggagccaac ggtagatcca	840
gttaataccg gaacgtcctg gccaccatg aagaaggctt cctggttgtc cagcgtggtg	900
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 accgtggagc ctttctgcgg ttttgcytga gaaatcgtgc gccagcgta ccaataggga 1140
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 aattgataat tcaccttcgg caacttcac gatcaacgcc tcgacatgta cctgagcacg 1260
 gcgaatatcc agttgttcaa t 1281

<210> 92

<211> 421

<212> DNA

<213> Escherichia coli

<400> 92
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 ggtgcagaaa tccttgttct tggttgtaca gaaattccgg ttattctggc gcaacgttaa 120
 agagcagcct tcccgctata ttgactcacg gcgtcactcg ttcgtgccgg aataaaatgg 180
 tacgaaaatc gtgtcggtaa acattatctt ttaacccaat aatcatttaa atcgcagcca 240
 gaaagttatt cgcttttaac tgaattatat ttataacgga gaacattatg gtttggtctg 300
 aaattatcgt agtacttggg gcaatakttt ttggtattcg ccagggggga atcgggtattg 360
 gtttatgtgg cgggcttggg cttgccattc tgactctggg acttgggtctg cctatggggg 420
 g 421

<210> 93

<211> 1018

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (781)..(781)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (990)..(990)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (993)..(993)

<223> n equals a, t, g, or c

<400> 93

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tttcctttca atgggtcaaa gacttgcttc tggaattcat ccggtttttt ctccagacgt    120
tttccttctt cataatagtc aatataactt ttaccactga gtgttttgkc yccattttctg    180
gtgacaccag ctaactcacc tatcagcgta tcccmatggt gctgggtaat gaggactgat    240
ctttcaacag aatactcttt attatactga gataatatatt taaagttatc ttctaataaat    300
gcagcatggc gggcatcata tcccattttc aaagtaattt ttgccgtggt ttttctccca    360
ttcagcaata acatcggcca ttttactggc gacatgttca aacattgcct gttttgaagc    420
ctcaaggatg cctgaaatta tccccgtaac agcccctacc agcgcgctta ccggtgcacc    480
aaccagagat gtcgttgtag cagcactaat acctgaagat actgaagcca gaacagtgtc    540
tatcgttggt aacgatgcat caatagctcc tgtttctttg tggaaagcag caagtaaact    600
gtcaccatcg tatccaagtt ttttgaatcg ttgtgaatac tcctctatct tattggcacg    660
tttaaactta tcggcaatgg acaggaatga gaggggacta attgccagtg tcacaacaga    720
agcaattaaa ccggcagcag cagcagatgt agataacccc tgtgctgcac gctgtgcgay    780
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ctgctgcagc tttagtccg gtatctgcat ctgcattgct cagaatgaaa cttgctgaaa    900
tcgcagataa aatacccgat acagtatcta accctgcacc gatattatca aggttaggta    960
aattctgtaa cttattacca acaccgttcn ggnctggttg tattgggata atacactt   1018

```

<210> 94

<211> 400

<212> DNA

<213> Escherichia coli

<400> 94

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ggcaatgttc aaatcgatat tgtgcagcac ctgggttggg ccaaagtgtc tggagacgtt    60
tttaaattca atcacaggat tttcatcctt ctttccagac gacgcagaat aaagctcagc    120
accagggtaa taatcagata gaacaccgcc acggcgctcc agatctcaag ggcgcggaag    180

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ttaccggcaa taatttcttg cccctgacgg gtcagttccg ccacgccgat cacaataaac	240
agcgagggtgt ctttaatgct gatgatccac tggttaccca gcggcggcag catacgacgc	300
gtgccagcgg taaaatgacg tagcgaatgg tttcccmacg tgaaagaccg agcgccagtc	360
ctgcttcacg aaaacctttg tggatagaca gcaccgcacc	400

<210> 95

<211> 1857

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (16)..(16)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (1465)..(1465)

<223> n equals a, t, g, or c

<400> 95

cggtgtcccc tggcngcctt ggtttcgcca tagacgttga gcgggggaaat cacatcggtt	60
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cacgcaccta atgcttcagc ttctttggca ataaccgcca cactagttgc attgagtaac	180
tcggcaaatt cccgctcact ctccgctttg tcgactgcag tatgggccgc tgcgttaaca	240
atcacatccg gcttgacgag acgtaccgtt tcagccaccc ctgcagaatt gctaaaatca	300
ccgcaatagt cggtggagtc aaaatcaacg gcagtgatgt gccccagagg cgccaatgca	360
cgctgcagct cccatcctac ctgaccattt ttgccaaaca acagaatatg catcaggtag	420
gctccctata gttttgttca atccaggatt ggtaggcacc actcttgacg ttgttaatcc	480
attgttgatt atccagatac cactgcacgg tcttgcgaaat accagactca aaagtctcct	540
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gtccggggcg atccgccaca taagtaattt gatcgcgata agagccagct ttcggtacca	660
tctcgtcaag cagatcacaa atagtatgta ctacatccag gttctgcttc tcgttgtagc	720
cgcctatgtt ataagtctcc ccgaccaagc cagtggtcac tacctttagt agtgctcgtg	780
catgatcttc cacatacaac cagtcacgaa tttggtcacc ttaccataa accggcagcg	840

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gcttgccatc cagcgcattg aggatcacta gcgggatcag cttctcggga aagtggtaag   900
ggccatagtt gttggagcag ttagtgacaa tggttggcag gccgtacgta cggtagcaag   960
cacgcaccag atgatcgctg gaagccttgg aggagaata gggactgcta ggagcgtagg  1020
aggtagtttc ggtaaagagc ggcaatgcct caccggaggc tacttcatcc ggatggggca  1080
gatcgccata tacttcatcg gtagaaatat ggtggaagcg aaaggccgcc ttgctcaact  1140
cgcccagact gtcctaatag gcgcgagccg cttccagcaa tgtatagggtg cctacgatat  1200
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gatgcatcac ggcactctggc tgggtgcagag caaacacccg atccaactca gcacgattac  1320
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aattgccagc ataggtgagt ttatccagat tgataacgga gtctccagta tcactaatga  1440
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aacatataaa taaagaaaat tttaaatcat ataacaaat tactttcatt tattatcaat  1740
aagtattttg ataagaatac ctataccaca gggagcccc tgaaacataa tattagcgaa  1800
gaatgataac tgatagttac catcttagag ataaaaactt atttgtgtgg cgggatg   1857

```

<210> 96

<211> 1128

<212> DNA

<213> Escherichia coli

<400> 96

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gagactctga aaatatggac atatataacc tcttttatta tgaaatattt tcaataataa  180
taatccgtta gtaatcctat catagggtaa tgtctcatca tgttaaaatg atcacattta  240
taatcatgtc aaaaagaaca acagaaaaaa tcatataaaa tcaattaaat ataattgcca  300
catattgttg ttattwaaac attggtggtg aatttaaagc gagaacagtt tgtaacagtg  360
actccttgca gactaagtta gagtctcctt ctaaaattag acggwkttct attgatggat  420
aatagtaagc gcaccgtgaa kgacgtgggg taaaattag tttacagatt gagtgacatt  480
ccagggaac aactctttca cgcggttggc aggccagggt ttgattacac tgatcacgtg  540
gcgtacatta ccggactcga ttccgttaag tttgcagcta ccgatcaggc tgtacatcac  600

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tgccgcactc tcgcctccac catcagagcc gaagaacatg tagttacgcc gccccagtgc	660
aataccccgga ggcgttttca cacaggttat tgtcgatctc caccagacca ttgcggcagt	720
attcgttcag agcgtcccat tgcttcagca gatagggtgaa cgcttttcgct gtatccgagt	780
ggcgcgacag tgctcatctg cccctggagc cactcataca acgactgcat tagcggtacc	840
gttctggctt ttctgaccgc cagtcgctct tctgccggac tgccgcggat ctcagcctcg	900
atagcgtaca gttcaccgat acgctgcagg gcttccgtgg tgatgtcagg tggcgctctt	960
gcatgcacat cgtggatttt tctccgggca tgggccatac aagccgcttc ggttacctga	1020
ccgctttcgt aaagagcatt gtaaccgca tatgcatcgg cctgcaggat acctctgtag	1080
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<210> 97

<211> 439

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (401)..(401)

<223> n equals a, t, g, or c

<400> 97	
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tatacttgctg catgcatgtc atcattaaaa agtactttgt caccgtcttt aagttgaaga	120
cgtgtaaaat ctttatacgg caagtagacg gaaaacgggc gctttccctg tcgccaatca	180
caccgacatg actgactttt gcgagaggaa gtgcataatt caccaattca gagcctaattg	240
cattgcgctg ggtaagctca aatcggaatg ggtttcgaac ctttcccgca acattgatca	300
ttggaccctt ttgctcaact gaaaatcaca tcttgatctt ttaatgccag cttcgggagt	360
ttcccatacc gtatgaaatc ataaagatca atttgckgtg nttactgcta ttttgtgcgt	420
gaacacctta atttttgcg	439

<210> 98

<211> 906

<212> DNA

<213> Escherichia coli

PB324D1.ST25.txt

```

<400> 98
tattcgtaat tagttataaa cagatgatgt aaacaccagt tgactagagt caatcttata 60
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tattattgat atctgtcaga gtatcaataa tagaaggtaa ttgtttttaca tactatcaac 180
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ctgccgcaat ctgaagcagg cttacctcct ccgtatggtg ctaatttatt tgccggaggc 900
tatgaa 906

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<210> 99

<211> 1395

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (1121)..(1121)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (1264)..(1264)

<223> n equals a, t, g, or c

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<400> 99
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 cccngctgcc gtgcgtcagg cactggcgaa agatccgcag aaaattttta actatatcca 1320
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<210> 100

<211> 380

<212> DNA

<213> Escherichia coli

<400> 100

cacttgaata aaactgacac cgtttacctc cataatagtg agcatagccg ccattgcggc 60
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 aaggacggat accggactct ttcgccactt cagcaatcac cggcagcggt gaaaaaacia 180
 taaacccagt accggccata atgggtcatag accaggtgat aatcggcgcg attatgttga 240
 tatatttcgg gttacgccgc ataaaattac cagcgacggg accagataat ccattccctt 300

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gcggcctgta aggctgaggc cgccacaaca acggtcataa taatcaggat cacgtcgact	360
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<210> 101
 <211> 995
 <212> DNA
 <213> Escherichia coli

<220>
 <221> misc_feature
 <222> (22)..(22)
 <223> n equals a, t, g, or c

<220>
 <221> misc_feature
 <222> (35)..(35)
 <223> n equals a, t, g, or c

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cgaagatatt tgcgttatgc tgtaataata taattcaatg tatttcagga acagtaatat	180
actacagttt ctacttttctt gtatttaata aattgttccg catcgctaaa agcagggtctt	240
tcagaagcca caagaattct gtggtcccag tatttttagt taccctatctt ttatatctaa	300
cttgtaatac ttacagcatt ttcattcatc ctaatggaag gctgtaataa tctttgagct	360
tagaaacatc aaaattatgc atctcattaa ttttgtcagt cacacgacct ctggtaaaaa	420
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tagtttcatc gcaatgagta aaaggacaac aagaataagt gataacgtta agagaagagc	600
atagaaacca ttccagtggg atatttctat tatttttagac aatggatagc cagccgcgga	660
cgcaccaaga tatgcgaata aactaacaaa accagtagaa gcaccagatg catatttatg	720
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gatgaaaaat aataacgaaa aaacatattt actatcaata gaaaccaacc atagacatgc	840
agaagcaatg attataccaa ttgtataaat aacattcatt tgagagcgat tgcccttaaa	900

cagaatatct gatcccatc cagctacgat agcaccaaaa aagcctccaa cctcaaacat 960
cattactggt gcatttgctg ttagcaagtc atatt 995

<210> 102

<211> 817

<212> DNA

<213> Escherichia coli

<400> 102

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tcctggcttc cctgatagtc agcccgagg cgccagggcc ccagattccc cccacagtc 120
ccgttataac tgaactgatg agagtctcct ccctgataat tacgggaaac cgtcccgttg 180
aggttataat ccagcatcag tccgggaatg ccgtcgtccc agcgtgaggg aggcagccag 240
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cagtaaacaa ctttatccag agattctgct gttaacccca tcagtctgac catatctgat 420
gtcagacagc tgcggcaatt tttttctgct cttatctcct gacaacgcag gttcaacaaa 480
tgamatctgt aacgatgcgg gagaaatact ttgcccgtta acaatcacat ccagaagata 540
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cgctgcgtca agtacatctg tattaactc aacggcactg gctgcgttac aaaacagaga 660
caacaatatc acacaggtaa tattgttgac tgcaaaagggt attctgtctt tcattccacg 720
catcaccaga ttcacaaaaa agataaataa ccggacatct caccggagtg actcactcat 780
aatcgacccg gaatcccagc acagcaaat aatttcc 817

<210> 103

<211> 709

<212> DNA

<213> Escherichia coli

<400> 103

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tcctgaaaaa cgggtgtgca atgccacttc tccgtgctgt ggcagacact gttgcctgtc 180
acaacagagg cgtgatactc gaagggtgtg aaaatgaagc gttgttccgt attgccagag 240
acatgaatgt ccagggtgtg cagggatggc tctacaggcg tgtgggggtt gatgaattat 300
ccgcgcttat tcagcagtat gaataatcct ttttcacaga ctgggtcagct gtcaacattt 360

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tgtgcacagg tatacaggca gtgtgtttcc agtatatgga aaatgattaa atgaataaca	540
cagacttatt agaaaaaatc atcaggcatc aacaaaacaa agatcctgca taccctttcc	600
gggaacatct tttgatgcaa ctctgtatcc gtgtaaacaa aaaaatacag aacagtacat	660
ctgagttttt tggtgcatat ggtataaatc actcagtata tatggttct	709

<210> 104

<211> 485

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (477)..(477)

<223> n equals a, t, g, or c

<400> 104	
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aaccaagacc aatcaagacc agaggacca tagcacggaa gatttctcca atcccacgca	180
gactgccaaa ggctgtatag aacaattctt cgtagcccca aatagcatca taaccgaaga	240
tccacatgac aatggctccg agtaaaattc ctaggaatac agaaatcaag ggaaccgaaa	300
tttgttgtaa ttttttagac atcactcttc tcctttccca agttyccacc agccatcaag	360
acaccaagtt cttgtttatt ggttgtttct ggtgatacaa taccttgaat cttaccatcg	420
tggataacgg caatacggtc tgagacgttt aaaatctcat ccaattcaaa gctgacnaca	480
aggac	485

<210> 105

<211> 459

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (436)..(436)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (449)..(449)

<223> n equals a, t, g, or c

<400> 105
agcagaatag gcaacatcac cacgccgaca aacagcgaga agagaatgac gccagccgcc 60
aggaacacca gctcatagcg cgccgggaag acgttaccat ccggcaagag cagcgggata 120
gagagcacac cggccagagt gatcgcccca cgcaccccg cgaaagacgc gatcaggatt 180
tctcgtgtgg tccacgaacc aaactccatc ggcttcttct tcaggaagcg gttgctgaac 240
tttttcatcg tccacagcca gccgaaacgg accagcatca gcgccgcata tatcagaata 300
atattggtaa acagcatcca gatttcgacg ttagggtcga tttcttgctg gccatcagcg 360
gacgtcttcc agrattaccg ggcagctgca gaccttaaca gcaggaaca ccatggccgt 420
tttaaggaca atttcnagca tcggcccang tgctgtttt 459

<210> 106

<211> 908

<212> DNA

<213> Escherichia coli

<400> 106
ttaatagcac taatactgtc ctgctctatt ccgctgacat tttcagtcag ctgctgtatg 60
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aacagcgacc agtacagtgc attccatagt gcctttgtcc aggctgtatc agtaagagca 180
ttaagttcct ctccctgtaa aataatatac agatatacctt tcggttcatac actctggtaa 240
agcgggtgcgg tactgaaaac tttttgctta tttacacttc ggggatcatc accatatacg 300
ggccagacac tgccggagag aaattttttc aacggtgcaa tattgatata ccggcgtttg 360
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ccacactggg attaagcgtc atcagacgct caaacagact cgttaatgtc cggtgttacc 480
agacaaaaca agcatcgcaa gacgccacaa acggtgcgct tacttaaata agccgggttac 540
aggtgaaaaa tcacgtcctg atattcaaatt gttttttcag gtcataatttt agcaggacac 600
taccagcacc taacagcagc acatctttta taacaaaact gtcaactttc cccagttgtg 660

gtaacaggct gagcgtgggtt attcctgtaa caataacgat aatatctccc agtacaccag	720
cagcaggcct gaagaaaccg ataataaatg ccagaaatgt gatagtttcc actatgccga	780
ggaaatagct ccctccatga ataccaaata taatatacag gatattcagc cagggtgggat	840
atatcagggg cttgagagcc ataacttcaa aatcaaacca tttataagtc ccaaaaagca	900
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<210> 107

<211> 1057

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (88)..(88)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (1019)..(1019)

<223> n equals a, t, g, or c

<400> 107

cgggctaacc caatatgctt tattaacccg ggataattac cctgttgcat attgtagttg	60
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agaagactgg acttctggtg atcgtaaata gtccattgac tggattgctc ctttcgggga	180
taacggtgcc ctgtacaaat atatgcgaaa aaaattccct gatgaactat tcagagccat	240
cagggtggat cccaaaactc atgttggtta agtatcagaa tttcacggag gtaaaattga	300
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cactcagcag gacaaagcac gaaagatgca ttaaaaaaag cagcagagca aacccgcaat	540
gcggaaaaca gactcathtt acttatccct aaagattata aagggcaggg ttcaagcctt	600
aatgaccttg tcaggacggc agatgaactg ggaattgaag tccagtatga tgaaaagaat	660
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cggggagtg	ctatctttgc	accacaatta	gacaaattac	tgcaaaagta	tcaaaaagcg	780
ggtaataaat	taggcggcag	tgctgaaaat	ataggtgata	acttaggaaa	ggcaggcagt	840
gtactgtcaa	cgtttcaaaa	ttttctgggt	actgcacttt	cctcaatgaa	aatagacgaa	900
ctgataaaga	aacaaaaatc	tggtggcaat	gtcagttctt	ctgaactggg	caaaagcgag	960
tattgagcta	atcaaccaac	tcgtgggaca	cagctggcca	gcctttaata	ataatgttna	1020
actcattttc	tcaacaactc	aataagctgg	ggaagtg			1057

<210> 108

<211> 752

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (714)..(714)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (719)..(719)

<223> n equals a, t, g, or c

<400> 108

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tttagtgagg	gttaatttcg	agcttggcgt	aatcatggtc	atagctgttt	cctgtgtgaa	180
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agtcgggaaa	cctgtcgtgc	cagctgcatt	aatgaatcgg	ccaacgcgcg	gggagaggcg	360
gtttgcgtat	tgggcgctct	tccgcttcct	cgctcactga	ctcgctgcgc	tcggtcgttc	420
ggctgcggcg	agcggtatca	gctcactcaa	aggcggtaat	acggttatcc	acagaatcag	480
gggataacgc	aggaaagaac	atgtgagcaa	aaggccagca	aaaggccagg	aaccgtaaaa	540
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acgctcaagt	cagaggtggc	gaaacccgac	aggactataa	agataaccagg	cgtttccccc	660
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752

<210> 109

<211> 486

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (11)..(11)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (477)..(477)

<223> n equals a, t, g, or c

<400> 109

cttgggtaat ngacctcata tccctccgcc aaaaaaggat ctacatgcga ttttgccaag	60
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gatttcacaa atgtagcatg acctttcacc tgtccaagag actgcaacac catctgtcca	180
aaacaataaa taggaatcaa acaggctacc aacatcaaca agtatcccaa taaggctcgt	240
agtttagtcc ttgacatgac gcccctccaa ttgcttttct agtcctttga caatccgtcg	300
attacgatac acgcgataca gcaagagaag gatgaccgcc atcgctccta gtaataacca	360
caaccagaat tgcccacgct ctctaccgc tcgattccgc tctgcaattg gtgccgtata	420
cggaatccgc ttcccacgta ccaacagacg atgactgtta atcctatacg gtgtacnagt	480
caacca	486

<210> 110

<211> 313

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (7)..(7)

<223> n equals a, t, g, or c

<400> 110
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cagccagacc gccgacagcg taccatcaaa accgatatct accagacctt taacagaaat 180
atcacgtaaa tcttcgtaaa cgctgccctg gatgatacca aacagcgcat ttttgtttcc 240
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ttgcgtaatc cca 313

<210> 111

<211> 1613

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (27)..(27)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (40)..(40)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (168)..(168)

<223> n equals a, t, g, or c

<400> 111
cggaaatccc agtaattcca tcctcanata ttccactcan cctcactgta acaaagtttc 60
ttcgaataat aaaaatcatg ctttctgtta tcaacggaaa ggtattttta ttctctgtgt 120
ttgctttatt tgtgaaattt agtgaatttg ctttttggtg gctttatntg atgtgtgtca 180

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ttttattcta gtttgatttt gttttgtggg ttaaaagatc gtttaaataca atattttacaa 360
cataaaammc taaatttaac ttattgctgt aagagtattt ccggggccgga agcatatatc 420
cagggggcccg acagaagggg gaaacatggc gcatcatgaa gtcatcagtc ggtcaggaaa 480
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aatcgggtca ttttaaattg ccagatatct ctggtgtgtt cagtaatgaa aaagaggttg 960
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<210> 112

<211> 930

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (26)..(26)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (126)..(126)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (540)..(540)

<223> n equals a, t, g, or c

<400> 112

ntagtccatg gccccatgga gcgaantcca aagtgtggat attgtcgttt taattcatcc	60
caaaagctga aatacgccaa aaccacggtt ccctaacatt ggtatcatgc ataatgacca	120
cagccnttca gaaagctttg gcaaccagct ttcaaaatca tgggtaccgc ttcaaacgta	180
tgcaaaccat caatatgaag cagatcaatg ctaccttggtg aaaaatgctc taacgcttgg	240
tcaaatgtac tgcgaatgag agtagaaaaa cctgaatagt gctgttgatt atattctgat	300
acttgccgtg aaacttcttc gccatacagc cccgcatggt catctcccc ccaggtatca	360
acggcaaagc agcatgtttc taaatctagt ttagagactg cttggcaaaa tgagaaataa	420
gaacttccat aatgagttcc cagctcaaca atatttcttg gccgcagtgt gtcaactaac	480
cagaaagcaa aagggaatgtg ttctagccaa gcagattgtg caaggatatgt aggacaccan	540
aaaagagatg gtttgaaaat gaaattcaat tccctgccaa tatcagtgat gggatataac	600
tcacgattct ctactaactg actaattttt tgactatcca ttgaggaaaa ctacatgta	660
tttatagaat taaatcaaga aacctgaaaa tacctatagt gcggtaactt attaaactaac	720
atttaaatat taacaataca cttggaaata ttagttaaaa ataaatcatt atgatttctc	780
atcaatcctg gtgctcacgc aaagttgccg gcccataat aataagacca tagaacaagc	840
aaagtaatac acccacagtc gcaagattat agaatcgccg tggatattcg gcatcttccg	900
ctaaagttgg ttgggtaata accaatagat	930

<210> 113

<211> 659

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (238)..(239)

<223> n equals a, t, g, or c

<400> 113

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gatacggctc accatttacc aacgtttcac agctatgttc cagagctaaa ttaagacctg      180
gtagaatatc ccagcaattc acccctttga cattttcaaa gctgtcataa gcaccggna      240
aggggggggcc aacatgttat acatggagca gccaatgata cgatattcaa agccctcttc      300
cagttgcatc agatcctgct tggttaasgga ggaagagagg ccacgaatac gagagcgatg      360
atgtgtaatc ggcatacctg tgatatgaag atcattcaat tcaggtaaga agatgcagga      420
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gacaaagttt tctgtgccat caattggatc tagaacaatg taagaacctt tgggattcca      540
ctcaatatct cctaaagggg ctaattcctc tgaaattagc acatgccctg gtagatgctt      600
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<210> 114

<211> 556

<212> DNA

<213> Escherichia coli

<400> 114

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cccggatata catcaggaga aattggagca gcaattggat gcgccattaa tgcctggtta      60
gggatccccg catgtgggca cgcaaatggc tcagaatatg atcgaccttc accagataaa      120
ccaaatctga gcgaaccatt tatcccaaga cccacgtatg acgcttctact tcattcctgg      180
catggcggat actgagtaaa tcatcctgaa tcattatggt caacatcatc aattctccgg      240
acttgttgtc agatgtccgg agaataataa ctttttcttc agaaacagaw tgatcaagaa      300
tcacactcct tctttaagag gattttatcc agaaaactga ctttcttcta tcaaaatmac      360

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agtatcctgt tttatcagga ataatcttta cctccggat cattcccata atcagatatc 420
agaaaaaatgt gccagtaatt ttttactgat gacttcaaac atttcacatt catcacacgt 480
cagattactc caaagttctt tcagatatgt gttctgcgcc agagtgagtc tctgaataaa 540
aaacatacct tcagac 556

<210> 115

<211> 503

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (60)..(60)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (65)..(65)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (90)..(90)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (460)..(460)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (496)..(496)

<223> n equals a, t, g, or c


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<400> 115
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tcagctatcg gtatataaac cgaaagacat tgtcgattcc ggcaaccctt tatccgggtg 180
ataaggtgat tattaccgaa gcgcgttcga aggctttcag gccattttca ccgaaccgga 240
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gaagaatacc gagttccgca aactctaaaa cgcaatccca aacagtgttt tgacattagc 360
atccgtggtg gcagccagcc atgcggcatc ttctccacgc cagtgcgcaa tacgttgcaa 420
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agggagcaga tacggngcat cag 503

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<210> 116
<211> 433
<212> DNA
<213> Escherichia coli

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<220>
<221> misc_feature
<222> (138)..(138)
<223> n equals a, t, g, or c

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<400> 116
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attactctgt tgatactnaa gtgccttttt aagggaaatct ggtgtgatta ccctgccgtc 180
tttatcaaaa atctgctcta tctggtgatt agagatatca cctgactctt tttcaaacca 240
gttttttaaat gtaataccat ttttgtggcc aatggaaaga acattacctt cagctttata 300
catgatgagg tcattacctt ctgcctgaa ggccacatcc cggaaatcaa tatcagccaa 360
actgagttta tcgtctttcc ccccatcatc gtcaataata tgatggccat atcctgaaag 420
ataacgataa ata 433

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<210> 117
<211> 302
<212> DNA
<213> Escherichia coli

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<220>

<221> misc_feature

<222> (280)..(280)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (299)..(299)

<223> n equals a, t, g, or c

<400> 117

gcgctctgtt cccgttcctg ttcataacca tcgcctgtgg tgcggtatct ggcttccacg	60
cgctgatctc ttccggtacg acgccaaaac tgctggctaa tgaaaccgac gcgcgtttca	120
tcggctacgg cgcaatgctg atggagtcct tcgtggcgat tatggcgctg gttgctgcgt	180
ccatcatcga accgggtctt tacttcgcga tgaacacccc gcctgctggc cttggcatca	240
ccatgcctaa cctgcatgaa atgggggtggc gagaacgcgn cggattcatc atggcgcant	300
ga	302

<210> 118

<211> 656

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (628)..(628)

<223> n equals a, t, g, or c

<400> 118

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aataatgggt ttgtccatta atacttacct aaataatcgg ctcatatag caacgagcct	120
ccgattaaaa tttaaatac tcaatcattt aatagcaacg ttagcagcta cagcgatttg	180
ataaataatt tgtgtgatat ctttaaataa ttgcatgggt ttgctatcaa cctgaggtag	240
aaccaatatc tgatcccccg gttgtacttt accttgccct ttaaattcta caagaccatt	300

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tca	acacttc										
accccc	cact	tga	ata	agat	cagt	tcttatt	tgga	ataact	attt	gatcgc	480
ctt	gtt	tctaa									
ttgg	ata	wtg	gca	ata	acac	cttt	atctgc	aact	actact	ttacca	540
agcg	accttt	yca	acaa	act	gc	atc	actaa	ctct	gcttct	ttag	600
cacgta	tatt	cg	cctc								
accat	cagat	cgc	gcgg	gtg	tggt	aaantt	cata	cgttcc	aagc	ggttta	656
gagatt											

<210> 119

<211> 436

<212> DNA

<213> Escherichia coli

<400>	119											
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aat	ggtgccg	gcgg	tgtggg	gatt	cagctt	ctgg	atagcg	ctgg	taatgc	ggtt	gctgct	180
ggac	agaaga	aata	tctggg	acag	gtagga	ccat	caacat	ctct	caatat	tgga	ttaagg	240
gcac	tcttatg	cact	gaccaa	tgga	cagact	ccac	ctactc	ccgg	acgagt	tcagg	cggtta	300
ggt	gatgtta	cctt	cgagta	taatt	aggaa	tg	tcggggat	ggg	ctatccc	cgat	attatt	360
gcag	gattag	tct	gtgatac	agata	tacag	ccc	atatgaa	caact	gtttg	catat	ataaaa	420
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<210> 120

<211> 559

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (463)..(463)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (499)..(499)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (552)..(552)

<223> n equals a, t, g, or c

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<400> 120
aataattaaa tttggaggga tcagttttct gataatgttc tgttattaaa acattatccc      60
atggggcgta gttatatcaa ttagcaggat cttatgagtt aactaacatc agttttgaat      120
ttttaatggg ggtaatttat cttttactaa aaatatTTTta actattaata tagcatcatg      180
gttgttacgg tttgttttaa ttctatttta taatgtgcta tatattgtat ttttgtgctt      240
agataaatat gttttttcat tacttttagtg atgttaatat tttgcgtgta gtaaaaatca      300
ttgttataac aaatgtcact gttgctatac tttgctgaac tgtttatcgg tcattttgat      360
tcaatcactg gttctatatt ttttaataac cgttctgtag cgattaatat attgctctcc      420
agaggataca ctatatgaaa tatattaaaa gtcattaatt ttnattcaat gttgtttaga      480
gttatgttca gtgtttggna ataggatgtg tttctaaacc gtcttggggt ctataataaa      540
ttctattcct anaggtttt                                         559

```

<210> 121

<211> 481

<212> DNA

<213> Escherichia coli

```

<400> 121
catgtccctt cctgaatact ggggagaaga gcacgtatgg tgggacggca gggctgcttt      60
tcatggtgag gttgtcagac ctgcctgtac tctggcgatg gaagacgcct ggcagattat      120
tgatatgggg gaaaccccgg tacggattta cagaatgggt tctccggacc tgaaagaaaa      180
ttcagcctcc ggctcaggaa ttgtgaattt aacagtcagg gtgggaacct tttctctgat      240
tcccggataa ggggtgacttt cgatggcgtc cggggtgaaa cggcggataa gtttaattta      300
tccggtcagg caaaaggcat taatctgcag atagctgatg tcaggggaaa tattgcccgg      360
gcaggaaaag taatgcctgc aataccattg acgggtaatg aagaagcgct ggattacacc      420
ctcagaattg tgagaacgga aaaaaacttg aagccggaaa ttatttttgct gtctggggatt      480
a                                                                481

```

<210> 122

<211> 535

<212> DNA

<213> Escherichia coli

<400> 122

```

ccatatagtg acttcattga acaaaatgta aatggaatct tgctggagaa tgaccacat      60
atatggataa aagctctttc attacttggt agtgcagatc ataaacgtag cgagttggcg     120
ttcaatgcta aaaaatatgc ttgtaaaatt gtaggtgtcg agtaaaaaga tttttttatt     180
taattggtgc tattgaatgt ttaaaaatcg aactgattgg tgttttaata ttaatcatag     240
gttatgatgc aaaaatatat taggcattgc ctgcttcaat taacttgaga gtgtaagttg     300
aattgaaata tggttatatg ataaagcaat atatgttaat acatatgtca accgaaaatg     360
ccattatgtg ttttttactt tatctgtaac gacacaatat ataaaataag gctaataatc     420
aaaacgcttt ttaatttgat tgttttgaat caagtgacta agaaattctc ttgctgcaaa     480
taactccctt agtgatTTTT tttgagtcta ttttattctc tgggcatggt catgc         535

```

<210> 123

<211> 412

<212> DNA

<213> Escherichia coli

<400> 123

```

ccggcccat aatgatgggt ttattaaggt tagcgccgac ggtttcgatg aacgatttca      60
ggtcggtatc tttaaaatta gcggtgaaag tggcttcttc cgcccagacc ggtgaactgc     120
ataatgccgc tgccagcacc agcggcagta aacgcttttt tgttttgagg ccagttgtct     180
tcttacgcca gaccgacaac gtcatatcac gccaaaacac gatgaatgat tctcctggat     240
taaatgcggt tagcgcagcg cgatggaaat gtcgtggcgc gcacccttgc gtaaaaccgt     300
aagttgaatg gaatccattg aaggtaactg ccgcatcaga gcaatcattg ctcgtggatc     360
agtgaaatcc tgctgattta gcgcaaagtc gatatcgctt tccttaaaac cg           412

```

<210> 124

<211> 576

<212> DNA

<213> Escherichia coli

<400> 124

tagcctgttc agcgtatatt tgggatgaga agccaaagtg gctttggtgg tgtcccagcc	60
cagggttttta ttactgctgg ttattttacct ttcattgtttt tcaataaagt tgtgactcag	120
ttgaaatctg ctgtcaatgc taatatggga cttttttgtt atagacaagt gactcctttt	180
gcaacttttta tagcacgttt tatgctagaa acaatgggtg gcatgattgt cgggtataatc	240
ctagtactag gattattgtg gtttggtctt gatgcaatac ctgcggatcc attgcaagtg	300
atccttggtt atttcttctt gatgctgttt tctttttctc ttggtattgt attttgtgtt	360
atgtgtaatt krgcgaraga ggcagataaa tttcttagct tgtaaatgat gcctttgatg	420
tttatctctt gtgttatgtt tcctcttgct actattcccc ctcaatatca gcattgggtt	480
tttatggaat ccacttgtgc atgctgtaga actaatccga agggcatggg atatctgggt	540
tatcgtagtc ctgatgtaag ttgggcgtat ctgtcg	576

<210> 125

<211> 132

<212> DNA

<213> Escherichia coli

<400> 125

ttaccaagca ggatctgatg caactggaag aaggctttga atatcgatc attggctgct	60
ccatgtataa catgttggtc gccgtacgcg gtgcctatga cagctttgaa aatgtcaaag	120
gggtgaattg ct	132

<210> 126

<211> 542

<212> DNA

<213> Escherichia coli

<400> 126

gattaggggt cactcaggat tataaaaaag cggcagaata ctataaaaaa ggtgataaaa	60
ataatgatat tacagcacia taccgtctgg caaaacttta tgaacaaggc aacggtgtaa	120
aacgtgatta tcaacaagcg ataaaccttt accttaaaaca tatcaacaga atggatcaca	180
tcactgcccc cagttttgtg gctctgggtg atatctattc tctgggatts ggggtagaga	240
aaaaccacaca actggctgaa aaatgggtatc aaaaagcgat agatgcagct aatacacac	300
ataaccagga aataaatcat taaacgacaa cacttaatac catattgtga agatgttcag	360
acatggcgga attcccctat tctttgttgg cgcttacaac agactatatt ccgccatatc	420
tgtctttatt gtgtataaac catcgatact gatgtttgat agtgctaaat aatcattggc	480
gcaatcacia agcctaagtc cactccagca ataattcccc ccaaccagg cagcataaat	540

gg

542

<210> 127

<211> 382

<212> DNA

<213> Escherichia coli

<400> 127

gaaccactta gcggcagcta tcgggaatcg cctgctgaaa gacggtcaga cagtgattgt	60
ggttaccgtg gctgatgtta tgagtgcctt gcacgccagc tatgacgatg ggcagtcagg	120
cgaaaaattt ttgcgggaac tgtgcgaagt ggatctgctg gttcttgatg aaattggcat	180
tcagcgcgag acgaaaaacg aagcaggtgg tactgcacca gattgttgat cgccggacag	240
cgtcgatgcg cacgtgggga trctgacaaa cctgaactat gaggccatga aaacattgct	300
cggcgarcgg attatggatc rcatgaccat gaacggcggg cgatgggtga attttaactg	360
ggagactggc gtccgaatgt cg	382

<210> 128

<211> 126

<212> DNA

<213> Escherichia coli

<400> 128

cgtcccgcac ccggaaatgg tcagcgaacc aatcagcagg gtcacgccta gaaatcatcc	60
ttagcgaaag ctaaggattt tttttatctg aattctagcc agatccccgc tgatttatgc	120
tggtta	126

<210> 129

<211> 258

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (142)..(142)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (205)..(205)

<223> n equals a, t, g, or c

<400> 129

```

acccccagcc tagctggggg ttttctgtgc acaaaaaatc ccggcataat ggccgggatt    60
tgcgagcttt cccactatct cttgattcct aaacggaaca tatcagttgg gaataaaggt    120
tgtattatca cttcatcatt anaaatgaat aatttgggcg ataaagctgt tacgtcatag    180
atattttcag cgattaatct taganttgac ctaaaaactg gaatacttgc atcatctgca    240
aagacaaaca tgtcatcg                                258

```

<210> 130

<211> 399

<212> DNA

<213> Escherichia coli

<400> 130

```

aaccagcggg tcgcatcatc tcatcccact gactctccgc ttttgacaga tctgcatatc    60
ctcggggcaa cttatccagt actccgtagt ttgccgattt attcaccgcg cagaacaccg    120
cctcacctgc atcggcaagc cggggggaaa actgataccc cagtagccag aacagaccga    180
aaataatatc gctgctaccc gcagtgtctg tcatgatttc aactggattc agccctgtct    240
gctgctcaag aagtccttcc agtacaaaaa tcgaatcccg taatgtaccg ggtaccacaa    300
tgccatggaa cccagagtac tgatcagata cgaattatac caggtgatgc ctcgtccaga    360
acccaaatat tttctgtag atcctgagtt gatggtctt                                399

```

<210> 131

<211> 745

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (297)..(297)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (323)..(323)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (330)..(330)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (335)..(335)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (715)..(715)

<223> n equals a, t, g, or c

<400> 131

aaataacatc aacatacatt tgactcgcgg gggaaacggt tacggagtct tcatactggc	60
acttttttat gctgctgact actcttcgtc atcgccatca acatgcgcac gaatcagcgc	120
cataaacggt ttgccaaagc gttccagctt gcgcattcca acgccgttaa cgctgagcat	180
ttcgctggcg gtgatcggca tctgttcagc catctcaatc aagggtgcgt cgttaaacac	240
cacgtacggc gggacattac tttcatcggc tatcgattta cgcagtttgc gtaattnggc	300
gaacagtttg cgatcatagt tgnccggan cgatntctgc atcgctttcg gtttgagcgc	360
cacgatacgc ggcacggcaa ttgcaaagag gattcgccgc gcagcaccgg gcgcgcggcc	420
tctgtcagtt gtagggcaga atgctgggca atattttgcg tcaccaggcc gaggtgaatc	480
agctggcgga tcacgctcac ccaatgttca tggcttttat cacggcccat gccatagact	540
ttcagtttgt catgaccata gtcgcggata cgctggttat tagcaccacg aatcacttcc	600
accacataac ccatcccaa cgcgtgattc acacgaccaa tgggtggaaag ggcaatctga	660
gcatcggttg aaccgtcgta ctgtttcggc ggatcgaggc agatatcgca gttcnccgca	720

cggtcctga cgcccttcgc caaaa

745

<210> 132

<211> 439

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (108)..(108)

<223> n equals a, t, g, or c

<400> 132

agaatggcgg cttcttgccc ccctttgccc cggtcctgac tagcatggct ggagtccagt	60
gtccaggcca cgaccatgct catcatggaa gcagcttttg tagtacantc gcagcttatt	120
ttcctggaac gaaatgtctg gcatcgtggt gcataacata acccccaatg cccagcagat	180
gcacagaagg ttctagaatc gccactgat atcccataca aaatttacca aaacgtgttc	240
gtattttctcg tataaataat gtctctatgg tgacgttcta gacttcaaac ccactttttg	300
aatttgatga tgtgctccta atctcttcag gaatgtaacg cccttggttt acagctacca	360
atacactgga ggtatactta tctgcaactg gatgaactag atgtacttga gcaaacattt	420
cataagctcg acgacagtt	439

<210> 133

<211> 350

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (97)..(97)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (208)..(208)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (335)..(335)

<223> n equals a, t, g, or c

<400> 133
 ctggaaagcg acgttgatgg attaatgcag tcggtaaaac tgaacgctgc tcaggcaagg 60
 cagcaacttc ctgatgacgc gacgctgcgc caccaantca tggaacgttt gatcatggat 120
 caamtcatcc tgcagatggg gcagaaaatg ggagtgtaaa tctccgatga gcagctggat 180
 caggcgattg ctaacatcgc gaaacagnac aacatgacgc tggatcagat gcgcaccgtc 240
 tggcttacga tggactgaac tacaacacct atcgtaacca gatccgcaaa gagatgatta 300
 tctctgaagt gcgtaacaac gaggtgcgtc gtcgnatcac catcctgccg 350

<210> 134

<211> 400

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (256)..(256)

<223>

<220>

<221> misc_feature

<222> (256)..(256)

<223> n equals a, t, g, or c

<400> 134
 cccaagatt gctaacaaat gcgcgttggt catgccggat gcggcgtgac cgccttatcc 60
 ggcctacgaa accgcaagaa ttcaatatat tgcaggagcg gtgtaggcct gataagcgta 120
 gcgawtcagg cagttttgcg tttgcccgcg accttagggg acatttagcg accccattta 180
 tttctcactt ttccgcctca tcatgcgcg ttaatttctt tcatgaatca cgctttacaa 240

tatccagcgc gcgcanaacg gtactggcag ggatctgaat tttcctccag cagcacaatc	300
aaatcgacag ccagtttgac atcgtcaagg ggcattttcc cagtgcata atctctccat	360
tgctaagcgg gttaaaacgc gctaacctgt ttcgattttt	400

<210> 135

<211> 463

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (25)..(25)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (432)..(432)

<223> n equals a, t, g, or c

<400> 135

ctatccttat gaccaccaa ctacntcatt tacacccaaa ccagcgatct gaataaagaa	60
gcgattgccc agttacgact gggcggaaaa tgcgcgtaag gatgaagtaa agtttcagtt	120
gagcctggca tttccctgtg gcgtgggatt ttaggcccga actcgggtgtt ggggtgctct	180
tatacgcaaa aatcctgggtg gcaactgtcc aatagcgaag agtcttcacc gtttcgtgaa	240
accaactacg aaccgcaatt gttcctcgggt tttgccaccg attaccgttt tgcagggttg	300
actgcgcgat gtggagatgg ggtataacca cgactctaaa cgggcgttcc gacccgacct	360
cccgcagctg gaaccgcctt tatactcgcc tgatggcaga aaacggtaac tggctggtag	420
aagtgaagcc gnggtatgtg gtgggtaata ctgacgataa ccc	463

<210> 136

<211> 584

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (425)..(425)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (467)..(467)

<223> n equals a, t, g, or c

<400> 136

ttggtcagcc gtacctgaat gggggctgat gcccggctgg ttaatggcag gtggtctgat	60
cgcttggttt gtcggttggc gcaaaacacg ctgatttttt catcgctcaa ggcgggccgt	120
gtaacgtata atgcggcttt gtttaatcat catctaccac agaggaacat gtatgggttg	180
tatcagtatt tggcagttat tgattattgc cgtcatcggt gtactgcttt ttggcaccaa	240
aaagctcggc tccatcggtt ccgatcttgg tgcgtcgatc aaaggcttta aaaaagcaat	300
gagcgatgat gaaccaaagc aggataaaac cagtcaggat gctgatttta ctgcgaaaac	360
tatcgccgat aagcaggcgg atacgaatca ggaacaggct aaaacagaag acgcgaagcc	420
tacgntaaag agcaggtgta atccgtgttt gatatcggtt ttagcgnact gctattggtg	480
ttcatcatcg gcctcgtcgt tctgggggcg caacgactgc ctgtggcggt aaaaacggta	540
gcgggctgga ttcgcgcggt gcgttcactg gcgacaacgg tgca	584

<210> 137

<211> 527

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (108)..(108)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (191)..(191)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (510)..(510)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (513)..(513)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (525)..(525)

<223> n equals a, t, g, or c

<400> 137

gcaggcagga ggaactgccc agtgatacgg ttattcgtga tggcggaggg cagagcctta	60
acggactggc gttgaacacc acgctggata acagagttga gcattggnta cacgggggag	120
ggaaagcaga cgttacaatt attaaccagg atgtttaccc agaccataaa acatggcgga	180
ttggcaaccg naaccatcgt caacaccggt gcagaagktg gtccggagtc tgaaaatgtg	240
tccagcggtc agatgggtcgg agggacggct gaatccacca ccatcaacaa aaatggccgg	300
cagttatctg gtcttcgggg atggcacggg acaccctcat ttgcgctggt ggtgaccaga	360
cggtacacgg agaggcacat aacacccgac tggagggagg ttaaccagta tgtacacaac	420
ggtggcacgg caacagagac gctgataaac cgtgatggct ggcaggtgat taaggaagga	480
gggaactgcc ggcgcatcac caccatcaan ccngaaaagg gaaanct	527

<210> 138

<211> 441

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (440)..(440)

<223> n equals a, t, g, or c

<400> 138

```

gtcagtctct gggggaagtg cgtgttccga ccggggaaat gtggtggaga aagttattga      60
aggggcttac gaggtggtgg gggtttttga ccggattgag gaaaagcgtg atgccatgca      120
gtcgtgatt ctgccgccac cggacgccag gcgctggcac aggcggcact gacttaccgt      180
tatggtgacg aacmtcarcc cgtcaccacc gccgacattc tgacaccacg acgccgggar      240
gattacggta aggacctgtg gagtgcattat cagaccattc aggagaatat gctgaaaggc      300
ggaattttccg gtcgcagtgc cagaggaaaa cgtatccata cccgtgccat tcacagcatc      360
gacaccgaca ttaagctcaa ccgcgcattg tgggtgatgg ctgaaacgct gctggagagt      420
atgcgctgat gccgtttccn t                                         441

```

<210> 139

<211> 398

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (164)..(164)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (210)..(210)

<223> n equals a, t, g, or c

<400> 139

```

cgagcgagat gaacttcgag ggcggtgtga gccagtcggc ttacgagaca ctggcggcgc      60
ttaatctgcc gaaaccgcag caagggcccg aaaccattaa tcaggttacc gagcataaga      120
tgtcagctga gtaagcctgt atgccggata aggcgctcgc gccnattccg atgaaataag      180
gcgcatcggg cctgaaggaa agccgtatgn atacacccgc agcccgcacg cggcaagtta      240
caacaaataa cctttaacca tgctttttga tgtttttcag caataccccg cggcgatgcc      300
catactggca accgtcggga gggattgatc atcggcagtt ttttgaatgt ggtgatttgg      360

```

gcggttacc cc atcatgctgc gccaaacaaat ggcggagt

398

<210> 140

<211> 580

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (566)..(566)

<223> n equals a, t, g, or c

<400> 140

gccgaacaga cacagcaata tgaaccctgc cagcgcagac gcttgctgat taatgctctg	60
aacaaaaggc gaagaatggc aaatcctgcg atcagcaaag tcagcgcacc gactatctgt	120
aacatagtca ctccgtgatg aatatcatgt gtattgtgaa tgccagtgaa tgtggcactg	180
aagcgtttgc acctgtccgg gtcccgggtca tgatgaccgs aacagagaga caatgccgaa	240
ttatcagaag gtcacattca gtgtggcttg gccgttataa ccttcagcgc tgctgccgct	300
gacgctgtgg gcataaccgg cctgaacgcc caggggtgata ttttcccgga cacgggcttc	360
cagtccggcc tgcagctcca gtgacgtgcc attccgggac ggtgagaacg tcatgttact	420
gccggctgcg gctgtaccba tgctcatgtc tccccgggag ctgaagggtgc ggataacaga	480
aggctgtacc caccggttca ccggcagttc acgcacactg tgttttgcac tgtcacgcaa	540
ggtgtcacgg gatgaggtgc cttcancaaa aggtcatatt	580

<210> 141

<211> 446

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (388)..(388)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (399)..(399)

<223> n equals a, t, g, or c

<220>

<221> misc_feature

<222> (415)..(415)

<223> n equals a, t, g, or c

<400> 141

tgccggacatc cagcggttccg ccatcatcca cacggggttct ggtggctgtg tgtccgggtca	60
gcacatccag acggccgccca ttttccagta cgacattatc agctttaccc tccacaacag	120
agaatgctcc caggcggttt gtgccgggtga cggttgcagc agtgctggta accagtgtc	180
cgccccgtgtt ctgggtgaca tcagacgctt taccgccggc attcacctgc agctttcctt	240
tctggttgat ggtggatgc gcggcagttc ctccttcctt aatcamctgc cagccatcac	300
ggtttatcag cgtctctgtt gccgtgccaa cgttgtgtac atactggta mctccctcca	360
gtcgggtgtt awgtgscctt ccgtgtancg tctggtcanc aacaacgcaa atganggtgt	420
cccgtgccat ccccgaagac cagtaa	446

<210> 142

<211> 327

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<222> (290)..(290)

<223> n equals a, t, g, or c

<400> 142

tgaatacgtt aagtcagcag accggcggag acagtctgac acagacagcg ctgcagcagt	60
atgagccggt ggtggttggc tctccgcaat ggcacgatga actggcaggt gccctgaata	120
atattgccgg agttcgccac tgaccgggtca gaccgggtatc agtgatgact ggccactgcc	180
ttccgtcaac aatggatacc tggttccgtc cacggacccg gacagtccgt atctgattac	240
ggtgaacccg aaactggatr gtctcggaca ggtggacagc catttgtttn ccggactgta	300

tgagcttctt ggagcgaaac cgggtca .PB324D1.ST25.txt

327